

RN300 Product Brief

The RN300 is a cost-saving but powerful security and networking product that combines numerous functions such as Security Zones, Bandwidth Management, VPN, VoIP Dynamic Rules, Load Balancing, Real Time Server Health Monitoring, Accounting and Layer 3-4 Switching.

Ranch's Secure Zones capability offers Multipoint-to-Multipoint security which cost-effectively segments a LAN into multiple individually-secured zones – each with its own stateful and stateless security policies in both directions between each pair of zones. Additional security layers such as VPN, per-user authentication, virtual zones, and policy-based security-on-demand are included. Each Secure Zone can be dedicated to an enterprise department, application, or special-purpose LAN segment, or to multiple customers in a Multi-Tenant environment.

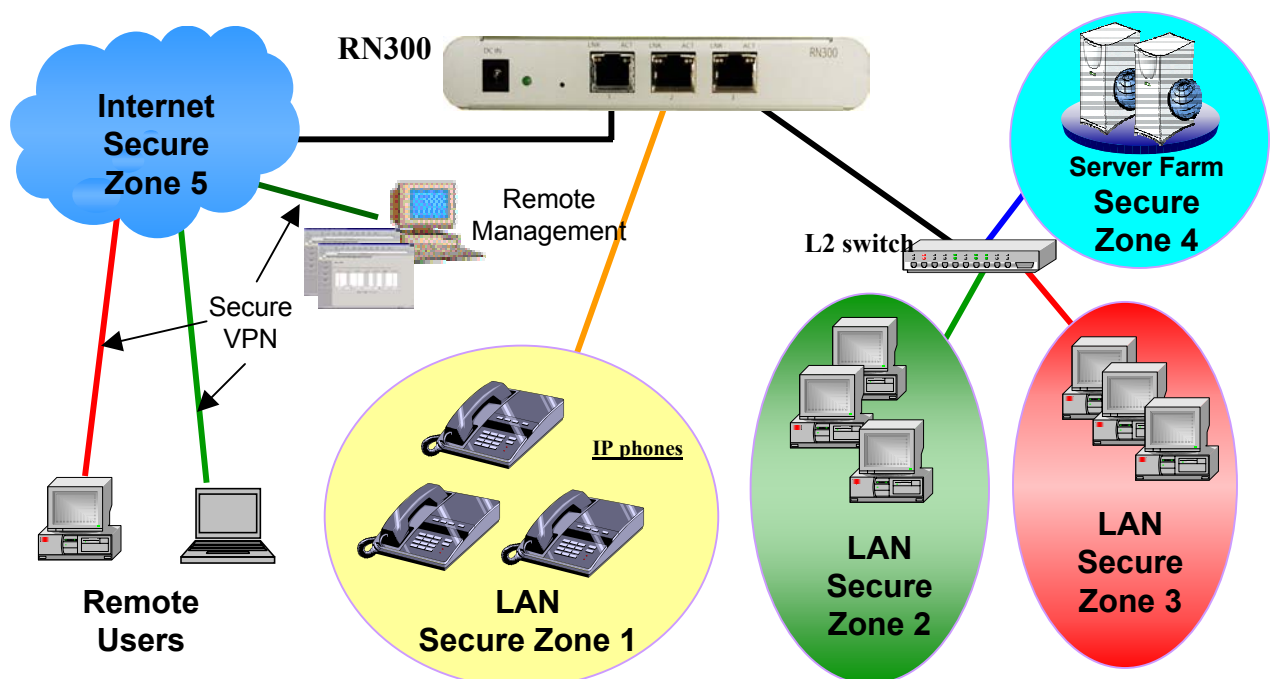
RN300 Key Benefits

- ✓ Strongest security solution for VoIP
- ✓ Compatible with VoIP protocols including SIP, H.323, MGCP, proprietary
- ✓ 5 Secure Zones
- ✓ VPN tunneling
- ✓ Contract based Bandwidth Management and QoS
- ✓ Accounting
- ✓ Replace multiple boxes with a single device
- ✓ Remote Management through Web-based GUI, SNMP, and Syslog
- ✓ User Authentication
- ✓ Load Balancing

RN300 Applications

- ✓ Multi-location Voice-over-IP deployments
- ✓ Encrypted remote access for traveling or remotely located users
- ✓ VPN tunneling for secure site-to-site communications
- ✓ Standalone small office perimeter and internal network security
- ✓ Subdivide the LAN to provide internal security, with special policies for VoIP, Wireless LANs, or sensitive server applications
- ✓ QoS and application prioritization
- ✓ Isolation of viruses, worms, etc.

RN300 Application example



RN300 Features Specification

✓ Security

- 5 security zones
- IPSec VPN – Remote Access or Site-to-Site
- Physical Zones or Virtual Zones
- Policy-driven security-on-demand
- LAN Segmentation into Secure Zones with unique Split Subnets
- Access Control Lists
- Stateful Firewall, Full NAT / Half NAT
- DoS Prevention
- Redirection to IDS
- Up to 256 Firewall rules per Security Zone
- Stateful firewall by TCP proxying
- Classification based on source IP, dest. IP, source port, dest. port, protocol, TCP flags, TCP options, ICMP Message types, TCP/FTP/UDP proxying
- Logging

✓ Switching/VLANs

- L3 forwarding, static routing
- VLAN support
- Unique VLAN subnet splitting
- Multiple default gateways routing with dead gateway detection
- IEEE 802.3x, 802.1D, 802.1P, 802.1Q

✓ Accounting

- Instrumentation based on:
 - Packet Classification
 - 7-tuple classification
 - Up to 32 accounting rules
 - Real-time counters (Tx, Rx, packets, bytes)
 - Packets dropped on purpose
 - Per-minute counters

✓ Load Balancing

- Round Robin, Weighted Round Robin, Least connections
- Persistency: Cookie, SSL, Client IP HTTP/s, FTP
- RFC-822 based application
- UDP application based on 4-tuple
- Common UDP applications including DNS
- Up to 1024 Logical Servers

✓ Voice-over-IP

- Independent of signaling protocols; thus compatible with SIP, H.323, MGCP, and proprietary signaling protocols
- Compatible with encrypted signaling and/or media streams; or RN can encrypt these streams
- Dynamic per-call Firewall control
- Dynamic per-call Bandwidth allocation
- Media bridging
- Multi-NAT Traversal
- Voice and data endpoints can be segmented into separate Secure Zones
- Equally applicable to Video-over-IP and other applications

✓ Bandwidth Management / QoS

- Guaranteed / Minimum / Maximum allocations
- Multiple bandwidth levels
- Priority through TOS 7-tuple classification
- Up to 32 bandwidth contracts
- 8 bandwidth traffic filters per bandwidth contract
- TOS marking for supporting QoS
- DiffServ compatible
- Traffic policing & guaranteed bandwidth per contract

✓ Health Monitoring

- ICMP ping
- TCP connection verification
- Active content verification for FTP, HTTPs

✓ Accounting

- Instrumentation based on:
 - 7-tuple Packet Classification
 - Real-time counters (Tx, Rx, packets, bytes)
 - Per-minute counters



RN300 Technical Specification

Power input: DC 5V @ 3A
Power Consumption: 10W max.
Operating Temperature: 32-104°F (0 to 40° C)
Operating Humidity: 10% to 85% non-condensing

Dimensions (h, w, d): 1.2" x 6.0" x 4.1"
Weight: 1.1 lb (0.5 kg)
Interfaces: 3 10/100 BaseT ports RJ-45 connectors

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